| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-----------|----------|---|---|---------------------|---------|------------------|
| L1 | 2 | (US-20030098490-\$ or US-20030047791-\$).did. | US-PGPUB | OR | OFF | 2006/04/24 15:36 |
| L2 | 1002 | (Flynn-E\$ or Gruezke-L\$ or Lang-D\$ or Onat-B\$ or Dentai-A\$ or Ji-Hong or Mason-Thomas or Sjolund-Ola). in. | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:36 |
| L3 | 116372 | avalanche adj (photodiode photo-diode photo) APD | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; | OR | OFF | 2006/04/24 15:36 |
| | | | IBM_TDB | | | |
| L4 | 7 | 2.and L3 | US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:36 |
| L5 | 138 | (grade gradient gradual slope) near (dope doping dopant impurity) and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:47 |
| L6 | 2230 | (grade gradient gradual slope) near (dope doping dopant impurity) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:47 |
| L7 | 2 | (absorber absorption absorbing) adj layer with L6 and @pd>"20050912" | US-PGPUB; USPAT | OR | OFF | 2006/04/24 15:47 |
| L8 | 4 | (("4,476,477") or ("20020074555") or ("5912478") or ("6218684")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/24 15:48 |
| L9 | . | (absorber absorption absorbing) adj layer with L6 and @pd>"20050912" | US-PGPUB; USPAT | OR | OFF | 2006/04/24 15:48 |
| L10 | 0 | L3 and graded adj transition and @pd>"20050912" | US-PGPUB; USPAT | OR | OFF | 2006/04/24 15:48 |
| L11 | 13 | L3 and (ingaalas gainalas alingaas) and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:48 |

| L12 | 319 | (257/191).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/24 15:48 |
|------------|--------|---|---|-----|-----|------------------|
| L13 | 2 | L12 and (grade gradient gradual slope) and @pd>"20050912" | US-PGPUB; USPAT | OR | OFF | 2006/04/24 15:48 |
| L14 | 13 | L3 and (ingaalas gainalas alingaas) and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:49 |
| L15 | 23 | L3 and ingaas and inalas and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:49 |
| L16 | 138 | (grade gradient gradual slope) near (dope doping dopant impurity) and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:49 |
| | 75 | (257/21,22,185,186,191,438-440). CCLS: and @pd>"20050912". | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ÖFF | 2006/04/24 15:50 |
| L18 | 3 | ko and grading layer and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/04/24 15:52 |
| L19 | 116372 | avalanche adj (photodiode photo-diode photo) APD | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:52 |
| L20 | 0 | L19 and graded adj transition and @pd>"20050912" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:52 |

| L21 | 41 | (US-20050029541-\$ or US-20020074555-\$).did. or (US-5912478-\$ or US-6218684-\$ or US-4476477-\$ or US-4829355-\$ or US-4722907-\$ or US-4829355-\$ or US-4974061-\$ or US-4982255-\$ or US-5121181-\$ or US-5155351-\$ or US-5260560-\$ or US-5308995-\$ or US-5324959-\$ or US-5365077-\$ or US-5457327-\$ or US-539221-\$ or US-6350998-\$ or US-6747296-\$).did. | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:52 |
|------------|--------|---|---|----|-----|------------------|
| S51 | 2092 | (grade gradient gradual slope) near (dope doping dopant impurity) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 15:47 |
| S76 | 116372 | avalanche adj (photodiode photo-diode photo) APD | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 10:58 |
| S77 | 6 | S76 and graded adj transition | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 15:52 |
| S78 | 197 | S76 and ingaas and inalas | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 10:58 |
| S79 | 1619 | apd and operating adj temperature | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON. | 2006/04/24 10:58 |
| S80 | 116372 | avalanche adj (photodiode photo-diode photo) APD | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 10:58 |

| | | | r | , | | |
|------------|-----|--|---|--------------|-----|------------------|
| S81 | 30 | S80 and (ingaalas gainalas alingaas) and @pd>"20050204" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 10:58 |
| S82 | 48 | S80 and ingaas and inalas and @pd>"20050204" | US-PGPUB; USPAT; USOCR; EPO; JPO; | OR | OFF | 2006/04/24 10:58 |
| | | | DERWENT; IBM_TDB | | | |
| S83 | 63 | S81 or S82 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 10:58 |
| S84 | 19 | (S77 S78 S83 S79) and @pd>"20050912" and (zinc zn carbon) | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 11:12 |
| S85 | 106 | avalanche and absorption with (zinc zn carbon) | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR · | OFF | 2006/04/24 11:14 |
| S86 | 33 | (avalanche adj photodiode or apd) and absorption adj layer with (zinc zn carbon) | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 11:15 |
| S87 | 39 | (avalanche adj photodiode or apd) and absorption adj layer with (zinc zn carbon) | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:38 |
| S88 | 2 | "20040121483" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:27 |
| S89 | | "20050121483" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:26 |

| S90 | 14185 | ko.in. | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:26 |
|------------|-------|--|--|------|-----|------------------|
| S91 | 2 | "20040251483" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:27 |
| S92 | 4 | (US-20050029541-\$ or US-20040251483-\$ or US-20030111675-\$).did. or (US-5912478-\$).did. | US-PGPUB; USPAT | OR | OFF | 2006/04/24 13:28 |
| S93 | 4 | S92 and grad\$4 | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/24 13:28 |
| S94 | 0 | (avalanche adj photodiode or apd) and absorption adj layer with dopant near3 grad\$4 | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR . | ON | 2006/04/24 13:41 |
| S95 | 71 | (avalanche adj photodiode or apd) and (dope doping doped impurity) near3 grad\$4 | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:42 |
| S96 | 17 | (avalanche adj photodiode or apd) and absorption same (dope doping doped impurity) near3 grad\$4 | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:45 |
| S97 | 9 | "735494" | US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB | OR | ON | 2006/04/24 13:45 |
| S98 | 1 | "735494" | US-PGPUB | OR | ON | 2006/04/24 13:48 |
| S99 | 7 | yoder with (paul or douglas) | US-PGPUB | OR | ON | 2006/04/24 13:53 |
| S10 0 | 2 | yoder with (paul or douglas) and absorption | US-PGPUB | OR | ON | 2006/04/24 13:51 |
| S10 1 | 4 | yoder with (paul or douglas) and diode | US-PGPUB | OR | ÓN | 2006/04/24 13:53 |